

Subject Index

- Adsorbed molecules, 267
Aggregation process, 9
Alginate, 141
Aluminas, 195
Aluminium oxide, 187
Ammonia, 297
Aniline, 297
Antibiotic peptides, 39
- Bilayers, 73
Biomembrane fragment modelling, 83
Biomembranes, 31
Boron content, 223
Borosilicalite-1, 223
Brønsted acidity scale for solids, 229
- Calculation of FMR powder spectra, 303
Cast film, 23
Cation environment and migration, 257
Cationic polyacrylamide, 127
Cellulose, 137
Cerium oxide, 215
Characterization, 249
Chemisorption, 207
Cluster, 207
Collective motions, 31
Complexation, 115
Coordination aggregates, 149
Copper(II) complexes, 249, 297
Copper(II) species, 171
CuCe oxide catalysts, 171
CW-EPR, 157
- Defects, 277
Dehydration, 55
Deuterium exchange, 39
Deuteron field-cycling, 107
Differential scanning calorimetry, 73, 97
Dioxygen, 207
Dipolar-correlation effect, 1
Director fluctuations, 1
- Disorder, 179
Dissolution, 47
DNA–ligand interaction, 89
- Electronic structure, 207
Electron paramagnetic resonance, 171, 277
Electron spin resonance, 23, 257, 291
EPR, 215, 297
Exchange interactions, 297
- Ferromagnetic resonance, 303
Fiber suspension, 127
Flocculation, 127
Flow encoded NMR imaging, 127
Fluoride-containing media, 223
Fourier transform infrared spectroscopy, 97
- β -Cyclodextrin/substituted aromatic
ketone complexes, 115
- ^1H -nuclear magnetic resonance, 55
 ^1H -ZSM-5 zeolites, 229
 ^1H MAS NMR, 229
 ^1H NMR, 137
 ^1H rigid lattice NMR, 229
Hydration, 47
Hydrotalcite, 187
- In-situ ESR, 179
Iron-exchanged zeolite Na-Y, 257
Isobutyl analogs, 83
- Laser spray pyrolysis, 319
Lewis acidity, 195
Linear absorption model, 141
Liquid crystals, 1
- Magnesium oxide, 157, 187
Magnetostriiction, 303
MAS-NMR, 319
Metal-doped oxides, 157

- Metal ion complexes, 149
Microheterogeneous system, 47
Molecular adsorbates, 239
Molecular mobility, 267
Molecular motion, 23
Molecular orientation, 23
MoSi₂ powders, 291
- N*-acylated glycerophospholipids, 73
N-acylphosphatidylethanolamines, 73, 97
N-acylphosphatidylethanolamines/
phosphatidylcholine mixtures, 97
Nanocomposites, 303
Neutral lipids, 63
Nickel-copper alloys, 303
NMR, 39, 149, 267
NMR identification, 83
NMR microscopy, 141
NMR relaxation, 137
NMR relaxation measurements, 31
NMR relaxometry, 107
Non-polar liquids, 107
N₃O₂ Schiff bases, 249
Nuclear magnetic relaxation, 47
- Oscillations, 1
Oxygen adsorption, 215
Oxygen radical-anion, 207
- ³¹P-NMR spectroscopy, 97
Paramagnetic complexes, 195
Paramagnetic point defects, 311
Peptide aggregation, 39
Phospholipids, 83
Phosphoryl compounds, 149
Platinum catalysts, 215
³¹P NMR spectroscopy, 73
Polar liquids, 107
Poly(ethylene glycol), 63
Polymer-derived ceramics, 291
Polymeric flocculant, 127
Polymorphism, 73
Porous glasses, 107
Positively charged surfactants, 9
Probe molecules, 195
Proton field-cycling NMR relaxometry, 107
Proton NMR, 47
- Proton selective and non-selective spin-lattice
relaxation rate analysis, 89
- Quantum chemistry, 207
- Rabbit lens, 55
Radiolysis, 239
Reactive fillers, 291
Redox behaviour, 171
Relaxation times, 55
Retention agent, 127
- Selective *n*-butane oxidation, 179
Sepiolite, 187
Shrinking core model, 141
Si/C/N powders, 319
Silicon, 311
Silicon nitride thin film, 311
Silicon oxynitride thin film, 311
Silver clusters, 239
solid-state ¹³C NMR, 115
Solid state, 207
Spectrophotometry, 63
Spin-coated film, 23
Spin label electron spin resonance, 63
Starburst dendrimers, 9
Stimulated echo, 1
Structural organization, 73
Superoxide species, 215
Supported vanadium oxide, 187
Surface-trapped electrons, 157
Surface reactivity, 157
Susceptibility NMR imaging, 141
Synthesis, 83
- Triticum aestivum*, L., 47
g Tensor, 207
- Vanadium phosphate catalysts, 179
Velocity profile, 127
Vesicles, 63
Viscoelastic properties, 31
⁵¹V nuclear magnetic resonance, 187
- Water, 55
- Zeolite encapsulation, 249
Zeolite rho, 239

